DROUGHT.

In Kans., Nebr., S. Dak., Iowa, north Tex., Ind. T., Ky., Ill., and south Mich. the drought was broken by rain during the early part of the month, and in Ohio the rains of the middle of the month ended the dry spell in that region. In S. Dak. late crops were reported injured. In southwest Minn. the drought was very severe and streams were reported very low. In and S. Dak., in Ford and Edwards counties, Kans., and in Ohio great injury was caused to corn, potatoes, and fruit. In McCulloch Co., Tex.

southern Mich. potatoes, fruit, and berries were affected. In east and central Va. the month was unusually dry, and corn and vegetation were damaged.

PRAIRIE FIRES.

Prairie fires caused considerable damage in parts of Mont.

VERIFICATIONS.

o forecasts for 24 hours in advance.

[Verifications made by Assistant Professor C. F. Marvin, assisted by Mr. H. E. Williams, chief clerk of the Forecast Division.]

The forecasts for districts east of the Rocky Mountains for August, 1890, were made by Captain H. H. C. Dunwoody, 4th Artillery, Signal Officer, and those for the Pacific coast districts were made at San Francisco, Cal., by 2d Lieutenant John P. Finley, Signal Corps.

Percentages of forecasts verified, August, 1890.

States.	States.			
Maine. New Hampshire Vermont. Massachusetts. Rhode Island Connecticut. Eastern New York. Western New York Eastern Pennsylvania Western Pennsylvania New Jersey. Delaware Maryland District of Columbia. Virginia North Carolina South Carolina Georgia Eastern Florida Western Florida Mississippi Louisiana Texas Arkansas Tennessee	80. 1 82. 8 83. 8 84. 9 85. 9 83. 7 85. 9 83. 7 84. 6 85. 9 85. 6 85. 6	Kentucky Ohio. West Virginia Indiana Illinois Lower Michigan Upper Michigan Wisconsin Minnesota lowa Kansas Nebraska Missouri Colorad., North Dakota. South Dakota. Southern California* Northern California* Oregon* Washington* Ey elements: Weather Temporaturef Monthly percentage of weather and temperature combined:	83.6 86.5 78.4 84.9 88.3 79.0 84.4 82.1 80.1 84.0 82.4 85.8 83.9 77.8 90.2 87.3 86.0 81.5	

[•]In determining the monthly percentage of weather and temperature combined, the Pacific coast states are not included. †The forecasts of temperature in districts east of the Rocky Mountains for August, 1890, were made with reference to the maximum temperature alone; that is, a prediction of warmer or cooler indicated that the maximum temperature of the day designated would be higher or lower than the maximum of the previous day. †The monthly percentage of weather and temperature combined is determined by multiplying the percentage of weather by 6, and the percentage of temperature by 4, and dividing their sum by 10.

SFORECASTS FOR 48 HOURS IN ADVANCE.

Appreciating the great importance that long time predictions possess for the general public the Chief Signal Officer has authorized forecasts for 48 and 72 hours, covering the 2d and 3d days in advance. These are optional with the forecast official, and are only made when clearly in the public interest, and cover, in all cases, considerable areas of country, and are not confined to localities.

Percentages of verifications of forecasts made for second day in advance. Number of predictions made: weather, 18; temperature, 26. Percentages of verifications: weather, 58.1; temperature, 65.4; weather and temperature combined, 61.8.

No forecasts for 72 hours were made during the month.

CAUTIONARY SIGNALS FOR AUGUST, 1890.

Statement showing percentages of justifications of wind signals for the month of August, 1890:

Wind signals.—(Ordered by Captain H. H. C. Dunwoody.) Total number of signals ordered, 51, of which 32 were justified as to velocity, and all as to direction. Of the signals ordered, 50 were cautionary signals, of which 31 were justified. and one was a storm signal which was justified. 11 signals were ordered for easterly winds, and 40 for westerly winds, all of which were justified. Percentage of justifications, 62.5.

No cold-wave signals were ordered during the month.

Percentages of verifications of weather and temperature signals reported by directors of the various State Weather Services for August, 1890.

States.	Weather.	Tem- perature.	States.	Weather.	Tem- perature.
Illinois	88.0 79.0 69.0	87·3 93·2 96·0 92·0 73·0 87·0	Nebraska	75·9 92·0	89.0 85.8 92.0 88.0 85.0 79.1

O STATE WEATHER SERVICES.

[Temperature in degrees Fahrenheit; precipitation, including melted snow, in inches and hundredths.]

The following extracts and summaries are republished from reports for August, 1890, of the directors of the various state weather services:

The weather was unfavorable to the cotton crop, as it favored the development of rust, which caused considerable damage.

Temperature.—Highest monthly mean, 80, at Livingston; lowest monthly

mean, 72.1, at Chepultepec; maximum, 97, at Eufaula, 7th, and at Marion, 27th; minimum, 50, at Florence, 28d, and at Double Springs, 31st.

Precipitation.—Greatest monthly, 7.30, at Florence; least monthly, 0.07, at

Pine Apple.
Wind.—Prevailing direction, southwest.—Prof. P. L.
rector; J. M. Quarles, Private, Signal Corps, assistant. -Prevailing direction, southwest. - Prof. P. H. Mell, Auburn, di-OEKANSÁS.

Temperature.—The mean was about 2.0 above the normal; maximum, 104,

nemperature.—Ine mean was about 2.0 above the normal; maximum, 104, at Lead Hill, 8th; ininimum, 50, at Forrest City, 18th; greatest local monthly range, 46, at Lead Hill; least local monthly range, 19, at Winslow.

Precipitation.—The average was about 0.36 above the normal; greatest monthly, 10.52, at Winslow; least monthly, 0.15, at Malvern.—M. F. Locke, Commissioner of Agriculture, Little Rock, director; W. U. Simons, Sergeant, Signal Corps, assistant.

COLORADO.

COLORADO.

Temperature.—The mean was 4.0 above the average for the last 4 years; highest monthly mean, 76.7, at Lamar; lowest monthly mean, 48.9, at Climax; maximum, 104, at Bennet, 6th, and at First View, 7th; minimum, 24, at Alma, 25th; greatest local monthly range, 66, at Julesburg; least local

monthly range, 30, at Cumbres.

Precipitation.—The rainfall was 0.10 above the average for the last 4 years; the amount ranged from 5.41, at Watervale, to trace, at Westcliffe.

Wind.—Prevailing direction, west.—Prof. F. H. Loud, Colorado Springs, director; W. S. Miller, Sergeant, Signal Corps, assistant.

ILLINOIS.

Temperature.—The mean was 2.8 below the normal of the past 15 years; maximum, 104, at Atwood, East Peoria, and Pontiac, 3d; minimum, 40, at

Precipitation.—The average was 0.36 below the normal of the last 12 years; greatest monthly, 7.06, at Jordan's Grove; least monthly, 0.95, at Collinsville.

Wind.-Prevailing directions, southeast and northwest.-John Craig, Sergeant. Signal Corps, Springfield. in charge.

O INDIANA.

Temperature.—Highest monthly mean, 74.0, at Marengo, Shelbyville, and Muncie; lowest monthly mean, 65.0, at Mauzy; maximum, 100, at Huntingburgh, 1st, and at Angola, 3d; minimum, 40, at Delphi, 23d; greatest monthly range, 55 at Delphi; least monthly range, 32, at Butlerville.

Precipitation.—Greatest monthly, 8.20, at Marengo; least monthly, 2.50,

at Columbia City.

Wind. Prevailing direction, southwest. - Prof. H. A. Huston, La Fayette, director; H. R. Patrick, Private, Signal Corps, assistant.

O IOWA WEATHER AND CROP SERVICE.

Temperature.—There was a general deficiency in temperature. There have Temperature.—There was a general deficiency in temperature. There have been but two cooler Augusts in Iowa within the last twenty years, but the frost line was only barely touched on a few dates during the month, and no material damage has been reported; highest monthly mean, 73.6, at Glenwood; lowest monthly mean, 63.9, at Cresco; maximum, 102, at Belle Plaine, Blakeville, Glenwood, and Washington, 2d; minimum, 36, at Atlantic, 14th; greatest local monthly range, 63, at Atlantic; least local monthly range, 38, at Independence and Iowa City.

Precipitation.—The average was slightly below the

Precipitation.-The average was slightly below the normal; greatest

monthly, 6.44, at Manson; least monthly, 1.02, at Omaha, Nebr.

Wind.—Prevailing direction, south.—J. R. Sage, Des Moines, director; G. M. Chappel, Sergeant, Signal Corps, assistant.

KANSAS.

Temperature.—Highest monthly mean, 81.7, at Kellogg; lowest monthly mean, 70.2, near Concordia; maximum, 115, at Kellogg, 9th; minimum, 40, at Lakin, 27th and 28th; greatest local monthly range, 66, at Lakin; least local monthly range, 39, at Collyer; greatest daily range, 46, at Gibson, 12th; least daily range, 7, at Leavenworth, 19th.

Precipitation.—Greatest monthly, 11.00, at Columbus; least monthly, 0.10,

at Winona.

Wind .- Prevailing direction, southeast .- Prof. J. T. Lovewell, Topeka, director; T. B. Jennings, Sergeant, Signal Corps, assistant.

Temperature.—The mean was about 3.0 below the normal; maximum, 101, at Pellville, 1st and 8d; minimum, 44, at Harrodsburgh, 31st; greatest monthly range, 55, at Harrodsburgh; least monthly range, 83, at Franklin.

Precipitation.—The average was about 2.50 above the normal; this excess

was confined to the eastern and southern portions of the state, elsewhere it was nearly normal; greatest monthly, 8.68, at Mount Sterling; least monthly, was nearly normal, 8.30, at Frankfort.

Wind.—Prevailing direction, southwest.—Dr. E. A. Grant, Louisville, director; Frank Burke, Sergeant, Signal Corps, assistant.

LOUISIANA.

Temperature.—The mean was nearly normal; highest monthly mean, 88.6, at Mandeville; lowest monthly mean, 76.5, at North Louisiana Experimental Station; maximum, 102, at Cameron, 21st; minimum, 59, at Minden and Liberty Hill, 30th; greatest local monthly range, 40, at Liberty Hill and Conshatta; least local monthly range, 19, at Abbeville.

Precipitation.—The average was nearly 1.00 above the normal; greatest monthly, 10.79, at Plaquemine; least monthly, 0.62, at Shreveport.

Wind.—Prevailing direction. south.—R. E. Kerkam, Sergeant, Signal Corps, New Orleans, in charge.

MICHIGAN.

Temperature.—The mean was 4.3 below the normal of the last fifteen years; Temperature.—The mean was 4.3 below the normal of the last fifteen years; highest monthly mean, 69.2, at Benton Harbor; lowest monthly mean, 57.5, at Crystal Falls; maximum, 104, at Bangor, 3d; minimum, 30, at East Lothrop and Roscommon, 23d; greatest local monthly range, 68, at Paw Paw; least local monthly range, 31, at Atlantic; greatest daily range, 43, at Clinton, Flint, and Roscommon, 26th; least daily range, 1, at Bellaire, 9th.

Precipitation.—The average was 0.10 above the normal of the last fifteen years; greatest monthly, 7.41, at Washington; least monthly, 1.28, at Weldon Creak.

Wind .- Prevailing direction, northwest .- N. B. Conger, Sergeant, Signal Corps, Lansing, director.

MINNESOTA.

Temperature.—The month was cooler than usual, and the deficiency in Temperature.—The momth was cooler than usual, and the deficiency in temperature was from 2.5 to 4.5 in various sections of the state; highest monthly mean, 66.2, at La Crosse, Wis.; lowest monthly mean, 59.1, at Pokegama Falls; maximum, 97, at Grand Meadow, 2d, and at Morris, 7th; minimum, 30, at Saint Vincent, 22d; greatest local monthly range, 62, at Saint Vincent; least local monthly range, 38, at Lake Winnibigoshish Dam; greatest daily range, 45, at Saint Vincent, 5th; least daily range, 3, at La Crosse, Wis., 12th, and at Duluth, 18th.

Precipitation.—The rainfall was slightly in excess in the central counties, in the upper and lower portions there were deficiencies of about 10 per cent

in the upper and lower portions there were deficiencies of about 10 per cent., and in the vicinity of Saint Paul the deficiency amounted to 40 per cent., greatest monthly, 3.96, at Red Wing; least monthly, 1.64, at Montevideo.

Wind.—Prevailing direction, southeast.—John Healy, Corporal, Signal

Corps, Saint Paul, in charge.

MISSISSIPPI.

Temperature.—The meanwas 1.9 below the normal; highest monthly mean, 81.6, at Moss Point; lowest monthly mean, 72.6, at Corinth; maximum, 100, at Columbus, 21st; minimum, 48, at Corinth, 26th; greatest monthly range, 48, at Corinth; least monthly range, 18, at Pearlington.

Precipitation.—The average was 1.47 above the normal; greatest monthly,

8.29, at Louisville; least monthly, 0.50, at Kosciusko.

Wind.—Prevailing direction, variable.—R. B. Fulton, Signal Corps, University, director.

METEOROLOGICAL REPORT OF THE MISSOURI STATE BOARD OF AGRICULTURE.

Temperature.—The mean was about 2.5 below the normal in all parts of the state; highest monthly mean; 78.9, at Bradleyville; lowest monthly mean, 69.8, at Glenwood; maximum, 106, at Princeton, 3d; minimum, 41, at Glenwood; maximum, 41, at Glenwood wood, 20th; greatest local monthly range, 60, at Glenwood; least local monthly range, 30, at Lebanon and Bradleyville.

Precipitation.—The average was about 0.75 above the normal; greatest monthly, 15.89, at Sarcoxie; least monthly, 1.10, at Wither's Mills.—Levi Chubbuck, Secretary of State Board of Agriculture, Columbia, director; A. L. McRac, Sergeant, Signal Corps, assistant.

O NEBRASKA.

Temperature.—The mean was 1.5 below the normal; the maximum, 108, occurred at several stations early in the month; and the minimum, 84, is lower than any August minimum, except that of 1888, which was the same.

Precipitation.—The rainfall was quite evenly distributed; from 1.00 to 8.00 fell over the greater part of the state.—Prof. Goodwin D. Swezey, Crete, director; G. A. Loveland, Sergeant, Signal Corps, assistant.

NEVADA. Normal temperature, numerous thunder-storms, and heavy rains were the features of the month.

Temperature.—Maximum, 110, at El Dorado Canyon, 19th; minimum, 28, at Elko, 26th; greatest local monthly range, 75, at Elko; least local monthly range, 34, at Younts' Ranch; greatest daily range, 55, at Pioche; least daily range, 15, at Beowawe.

Precipitation.—Greatest monthly, 8.44, at Tuscarora; least monthly, 0.10.

Wind.—Prevailing directions, south and southwest.—Prof. Charles W. Friend, Carson City, director; H. E. Wilkinson, Corporal, Signal Corps, assistant.

O NEW ENGLAND METEOROLOGICAL SOCIETY.

Temperature.—The mean was 1 below the normal; highest monthly mean. Temperature.—The mean was 1 below the normal; highest monthly mean, 70.8, at Olneyville; lowest monthly mean, 59.9, at Berlin Falls; maximum, 94, at Plymouth, N. H., 4th, and at Lawrence, 5th; minimum, 82, at Berlin Falls; least local monthly range, 61, at Berlin Falls; least local monthly range, 25, at Nantucket; greatest daily range, 44, at Plymouth, N. H., 17th; least daily range, 1, at Cotuit, 9th.

Precipitation.—The average was 0.30 above the normal; greatest monthly, 8.85, at Stratford; least monthly, 2.05, at Block Island.

Wind.—Prevailing direction, southwest.—Prof. William H. Niles, Roston.

Wind.—Prevailing direction, southwest.—Prof. William H. Niles, Boston, Mass., president; Prof. Winslow Upton, Providence, R. I., secretary; J. Warren Smith, Private, Signal Corps, assistant.

O NEW JERSEY. Temperature.—The mean was 0.5 below the normal; highest monthly mean. 76, at Trenton; lowest monthly mean, 68.5, at Newton; maximum, 99, at Beverly, 1st; minimum, 40, at Newton, 23d; greatest local monthly range, 54, at Beverly, 1st; least local monthly range, 28, at Ocean City; greatest daily range, 83, at Tenafly and Gillette, 17th; least daily range, 8, at Asbury Park, 13th.

Precipitation.—The average was 0.16 below the normal; greatest monthly, 7.51, at Atlantic City; least monthly, 2.89, at Woodbury.

Wind.—Prevailing direction, northwest.—E. W. McGann, Sergeant, Sig-

nal Corps, New Brunswick, in charge.

U NEW YORK.

Temperature.—Highest monthly mean, 72.4, at New York City and Fort Wadsworth; lowest monthly mean, 59.9, at Keene Valley; maximum, 100, at Marshland, 4th, and at Madison Barracks, 5th; minimum, 88, at Hyndsville, 28d; greatest local monthly range, 61, at Hyndsville and Marshland; least local monthly range, 82, at Setauket.

Precipitation.—Greatest monthly, 9.46, at Marlborough; least monthly, 0.80, at Madison Barracks.

Wind.—Prevailing direction, west.—Prof. E. A. Fuertes, Ithaca, director; I. G. Gardiner, Corporal, Signal Corps. assistant.

O NORTH CAROLINA.

Temperature.—The mean was 2.8 below the normal; highest monthly mean, 78.6, at Kitty Hawk; lowest monthly mean, 67.4, at Highlands; maximum, 98, at Kitty Hawk, 1st, and at New Berne, 17th; minimum, 40, at Highlands, 12th; greatest local monthly range, 50, at Douglas; least local monthly range, 19, at Hatteras.

Precipitation.—The average was 0.75 below the normal; greatest monthly,

10.72, at Willeyton; least monthly, 2.30, at Franklin.

Wind.—Prevailing direction, southwest.—Dr. Herbert B. Battle, Raleigh, director; C. F. von Herrmann, Sergeant, Signal Corps, assistant.

Temperature.—The mean was 0.5 below the normal; greatest monthly, 72.0, at Fort Sully, Saint Lawrence, and Spearfish, S. Dak.; lowest monthly mean, 59, at Gallatin, N. Dak.; maximum, 105, at Highmore, S. Dak., 5th; minimum, 31, at Webster, S. Dak., 22d; greatest local monthly range, 72, at Woonsocket, S. Dak.; least local monthly range, 35, at Wild Rice, S. Dak.

Precipitation.—The average was about 0.81 below the normal; greatest monthly, 3.39, at Webster and Wild Rice, S. Dak.; least monthly, 0.04, at New England City, N. Dak.

Wind.—Prevailing direction, southeast.—S. W. Glenn, Sergeant, Signal Corps, Huron, S. Dak., in charge.

Corps, Huron, S. Dak., in charge.

Temperature.—The mean of the northern section, the middle section, the southern section, and of the state was 0.9, 0.8, 1.1, and 0.9, respectively, below the average for the sections and state; maximum, 103, at North Lewisburgh, 3d; minimum, 40, at Wooster, 24th; greatest daily range, 44.1, at Wauseon, 12th; least daily range, 4, at Hanging Rock, 14th.

Precipitation.—The precipitation was largely in excess of the usual amount in all extenses the maximum the middle cartiers the

in all sections, the average for the northern section, the middle section, the southern section, and the state, was 1.04, 0.88, 2.05, and 1.33, respectively, above the normal for the sections and state; greatest monthly, 8.38, at George-

town; least monthly, 1.93, at Hudson.

Wind.—Prevailing direction, southwest.—Prof. B. F. Thomas, Columbus, director; Lieut. Charles E. Kilbourne, secretary; C. M. Strong, Corporal, Signal Corps, assistant.

OREGON.

Temperature.—The mean was about the normal; highest monthly mean, 74.4, at Hood River; lowest monthly mean, 59.0, at Gold Beach; maximum, 100, at McMinnville and Grant's Pass; minimum, 33, at North Powder.

Precipitation.—The average was 0.48 below the normal. Over 1.00 fell

along the extreme northwest coast, and in parts of the state from trace to 0.79.

Wind.—Prevailing direction, northwest.—Hon. H. E. Hayes, Master State
Grange, Oswego, director; B. S. Pague, Sergeant, Signal Corps, assistant.

Temperature.—The mean was 2.0 below the normal; highest monthly mean, 73.6, at Philadelphia; lowest monthly mean, 60.1, at Wellsborough; maximum, 98, at New Castle, 3d, and at Gettysburgh, 6th; minimum, 34, at Somerset, 24th; greatest local monthly range, 29, at Huntingdon; least local monthly range, 13, at Erie; greatest daily range, 47, at New Castle, 16th; least daily range, 2.0, at Grampian Hills, 21st.

Precipitation.—The average was over 1.50 above the normal; greatest monthly, 9.65, at Carlisle; least monthly, 2.58, at Philadelphia.

Wind.—Prevailing direction, west.—Under direction of the Franklin Institute, Philadelphia; T. F. Townsend, Sergeant, Signal Corps, assistant.

CSOUTH CAROLINA.

Temperature.—The mean was 0.4 above the normal of the last 3 years; highest monthly mean, 80.0, at Port Royal; lowest monthly mean, 72.1, at Camden; maximum, 96, at Blackville, 1st; minimum, 51, at Yorkville, 24th; greatest local monthly range, 44, at Cheraw; least local monthly range, 18, at Timmonsville.

Precipitation.—Greatest monthly, 7.95, at Winnsborough; least monthly,

1.61, at Port Royal.

Wind.—Prevailing direction, south.—Hon. A. P. Butler, Columbia, director; G. E. Hunt, Sergeant, Signal Corps, assistant.

TENNESSEE.

The meteorological conditions were for the most part near the normal, except the period of low temperature during the last two decades, and the rain-

fall, which was considerably above.

Temperature.—Highest monthly mean, 77.0, at Union City and Memphis; lowest monthly mean, 69.6, at Andersonville; maximum, 99, at Watkins, 4th; minimum, 48, at Nunnelly, 12th, at Andersonville, 25th, and at Hohenwald. on the 24th and 31st; greatest local monthly range, 49, at Hohenwald; least local monthly range, 29, at Covington; greatest daily range, 49, at Hohenwald, 24th; least daily range, 2, at Nunnelly, 5th, Ashwood, 7th, Florence Station, 26th, and at Knoxville, Jacksboro, and Rugby, 28th.

Precipitation.—Greatest monthly, 9.91, at Springdale; least monthly, 2.76,

at Rockwood.

-Prevailing direction, southwest.—J. D. Plunket, M. D., Nashville, director; H. C. Bate, Signal Corps, assistant.

TEXAS.

Temperature.—The temperature was slightly below the normal, except in the extreme western portion, where the normal prevailed; highest monthly mean, 87.5, at Haskell; lowest monthly mean 75.6, at Panhandle; maximum, 106, at Haskell, 30th; minimum, 51, at Panhandle, 8th; greatest local monthly range, 52, at Coldwater; least local monthly range, 16, at Corpus Christi and La Grange.

Precipitation.—The rainfall was deficient, except in a few localities near the

coast and over the northwestern portion of the state, where the amount equalled, and, in a few instances, exceeded, the normal; greatest monthly, 6.29, at Orange; least monthly, 0.40, at Weatherford—D. D. Bryan, Galveston, director; I. M. Cline, Sergeant, Signal Corps, assistant.

Meteorological record of Army post surgeons, voluntary, and other co-oper. ating observers, August, 1890.

Stations.	1 4		_ • • •	Qéations.			Temperature. (Fahrenheit.)		
Stations.	O É (0 0 0	Mean.	Stations.	Max.	Min.	Mean	Precip'n	
Alabama.	64	0	Ins. 2.31	California—Cont'd. Brentwood		0 62	0	Ins.	
Bermuda •† 90 Camden 91	64	77.0 74.0 80.7	0.65	Brighton*	100	63	80.5 75.9	0.00	
Citronelle 96 Columbiana † 93	62 55	76·3	5. I3 4. 78	Caliente*	Im2	70	78.2 79.3	0.00	
Decatur (1) †	•• ••••	•¦••••	. 4.82	Calistoga •	93 78	48	07.8	0.00	
Double Springs t 91	50	75.5	4.77	Centreville *e	98	51 60	71.2	0.00	
Enfaula 1	58 59	78.9		Chico *	104 82	50 50	79·5 63·9	0.00	
Evergreen † 94 Livingston(1) * 89	70	79-4	3.71	Cisco Colfix*	98	58	75.5	0.00	
Livingston(2)† 93 Marion † 97	57 55	77.5 78.6	3.96 1.94	Crescent City Delta		65	83.3	0.00	
Mt. Vernon B'ks 94 Opelika† 97	58	78.0	3.84	Downey*	o8	55 60	75.1	0.00	
Pine Applet 95	55	77.6	0.70	Dunsmvir	91	62	74.2	0.00	
Selma(2)† 95 Tuscumbia (2) 94	55 52	80.0 75.7	4·05 5·85	Elmira El Verano*	95	60 52	74· I 67· 7	0.00	
Valley Head 1 92 Alaska.	50	75.7	4.71	Esparto •	98	60	79.0	0.02	
Juneau 70	43	55.6	2.21	Farmington*	102	61	76.6	0.00	
Arizona. Ariz. Canal Co.dam. 107	70	83.8	1.80	Felton	106	54 60	73.6	0.00	
Ash Canyon			5.79	Florence*	97	64	72.3	0.00	
Ash Springs •	. 68	75.6	3.48	Fort Bidwell	QI	65 44	80.8 68.7	0.00	
Benson 98 Bisbee† 84	70 56	70.0	4·81 5·71	Fort Gaston	76	41 48	71.3 58.7	°.°5	
Casa Grande 108	74	86.9	3.41	Fresno	108	61	84.5	0.02	
Chino 91 Chiri Cahua M't's	56	75.3	3.90	Fruto	104 100	62 58	81.2 76.1	0.00	
Contoviath Se	: 44	64.2	4.60	Galt	94	49	73.0	0.00	
Crittenden			5·95 4·73	Gilroy •	94 97	52 65	76.1	1.37	
Dos Cabezos t Eagle Pass*	.' .' 60	72.6	5·07 4·70	\ioshen #	98 108	51 62	65.6	0.00	
Florencet107	; 60	84.4	1.89	Grass Valley]	• • • • • •	81.5	O. 00 T.	
Fort Apache 91 Fort Bowie 88	51 56	70.5	4.16	Hollister •	85 98	55 52	65.4 66.5	0.00	
Fort Grant 90 Fort Huachuca 89	54	72.6	4.54	Hornbrook*	96	48	72. 1	0.46	
Fort Lowell	63	80.2	4·49 5·58	Indio* Iowa Hill* Julian* Keeler* Kene*	76 114	39 75	59·2	0.00	
Fort McDowell 110 Fort Mojave 112	68 70	86.1	1.55	Julian*	96	75 56 6υ	75.9	T.	
Fort Verde 104	58	78.2	2.30	Keeler*	100	75 63	71.4 85.6	1.25	
Gila Bende104 Grand Central Mill	78	88-4	3.90 6.48	Kingsburgh • King City •	98	63 62	75·3 82.7	1.40	
Holbrook † 95	53 62	73.6	2·57 7·18	King City Knight's Landing.	96	46 60	68.6	0.00	
Lochiel* 85 Maricopa 105	78	70.5 89.7	4.29	La Grange	111	55	74·7 80.6	0.00 T.	
Mount Huachuca 85	51	70.6	4.46		95	50 60	69.8 80.4	0.00	
Natural Bridget New Rivert 104 Pantano 102	60	82.9	1.69	Lewis Creek*	001	61	80.7	0.00	
San Carlos	63	78-4	6.30 3.26	Livermore Livingston * Long Beach	98 106	56 60	71.9 83.6	0.00	
San Carlos	62	82.8	2.46 3.60			60 61	71.7	0.00	
Show Low †	68	87.4	3.17	Los Banos (2) I	99	69	74·7 85·3	0.00	
Strawberry Teviston		•••••	3.27	Los Gatos (2)	95 93	55 45	70.3 67.7	0.00	
Tip Top † 96			2.46	Mammoth Tank 1	16	75	93.1	T. 0.00	
Tucson (1)† 99	57 66	75.6 81.7	6.26 5.23	Martinez* Menlo Park*	02	54 52	66.3	0.00	
Walnut Grovet	• • • • • •	•••••	4.65	Modesto *	03	63 68	78.9	0.00	
Walnut Rancht 98	60	77.2	5.20	Monterey *	86	50	83.9 61.0	0.00	
Wilgus			5-94	Napa- Newark	^	51 55	67.3 68.3	0.00	
Arkengeg City +			1.68			55	69. I	0.00	
Dardenelle			2.66 4.35	Norwalk	89	53 50	74·9	o. ∞ T.	
Camden †	50	77.6 76.8	1 · 17 3 · 44	Oakland (2)*	76	54 82	60.3	0.00	
Fultont	:·····)		0.54 4.83	Ogilby I	02	70	91.5 82.1	0. 05 0. 16	
Fultont Helena (1) †	58	78.6	4.22	Oroville *	8o l	60 48	79·8 61·3	0.00	
Hot Springs 98	57 58	78.4	3.83 5.73 1.90	Paso Robles * Petaluma *	99	52	70.2	0.00	
Little Rock B'ks 99	59 60	78·3 78·9	1.90	Placerville (I) I	OI	53 52	66.4	0.07	
Malvern 94 Newport(1)t	60	78.8	0.15 4.96	Placerville (2)*	94	46 41	70.0 67.5	T.	
Newport(2) 93	55 60	75.6	4.62	Pleasanton	03	63	75. I 85. o	0.00	
Prescott 96	64	80.3 79.6 78.8	1.66	Porterville I	82	70 45		0.15	
Russellville 96	60 60	78.8 81.5	6.47	Puente •	02	45 65 60	76.2	0.00	
Winslow 84	65	74.5	10.52	Red Bluff •	03	64	78. I 82. 2	0.00	
Alcade	65	83.9	0.00	Redaing	12	60 52	83.9 75.8	0.00	
Alcatraz Island 68	43	56.9	· · · · · ·	Rocklin *	05	60	79.8	o. 55 o. oo	
Alcatraz Island 68 Almaden 93 Anaheim 104	53 62	68.6 75.5	0.00	Sacramento(1)	90	65 46	82.7 66.8	o. 00 T. T.	
Angel Island 83 Antioch*	47 68	00.6	0.00	Sacramento(1) Salinas (1)* Salinas (2)*	ξş	52	59.8	T.	
Aptos*	66 50	62.6	0.00	Salinas (2)*	13	55 75	60.4 89.3	o. oo o. 37	
Athlone*iio	60 55	81.7 75.1	0.00	San Ardo	25	55 75 65 48	87.2 73.1	0.00	
Auburn * 98 Bakersfield * 103 Barstow † 106	71	87.1	0.03	San Diego B'ks 8	രി	59	71.0	°. °4 T.	
Baratow † 106 Belmont • 90	58 54	82.7	0.15	San Gabriel	00	50	75.9 66.8	0.00	
Benicia Barracks 07	51	68.0	0.00	San Mateo	35	52	65.3	0.00	
Berendo * 108 Berkeley 83	E2	60.2	0.00 T.	San José *	~	55 63	74.7	0.00	
Boulder Creek*108	42	66.5 l	0.00 !	Santa Ana	x6 1	60		0.00	